

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062288.D
 Acq On : 13 May 2019 6:04
 Operator : FY/SY
 Sample : K2733-03RE
 Misc : 6.49g/5mL/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Quant Time: May 13 08:36:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	527184	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	704072	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	476158	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	212854	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	222467	45.41	ug/l	0.04
Spiked Amount			Recovery	=	90.82%	
35) Dibromofluoromethane	6.94	113	250563	42.89	ug/l	0.05
Spiked Amount			Recovery	=	85.78%	
50) Toluene-d8	10.42	98	498930	35.42	ug/l	0.02
Spiked Amount			Recovery	=	70.84%	
62) 4-Bromofluorobenzene	13.56	95	170072	30.07	ug/l	0.01
Spiked Amount			Recovery	=	60.14%	

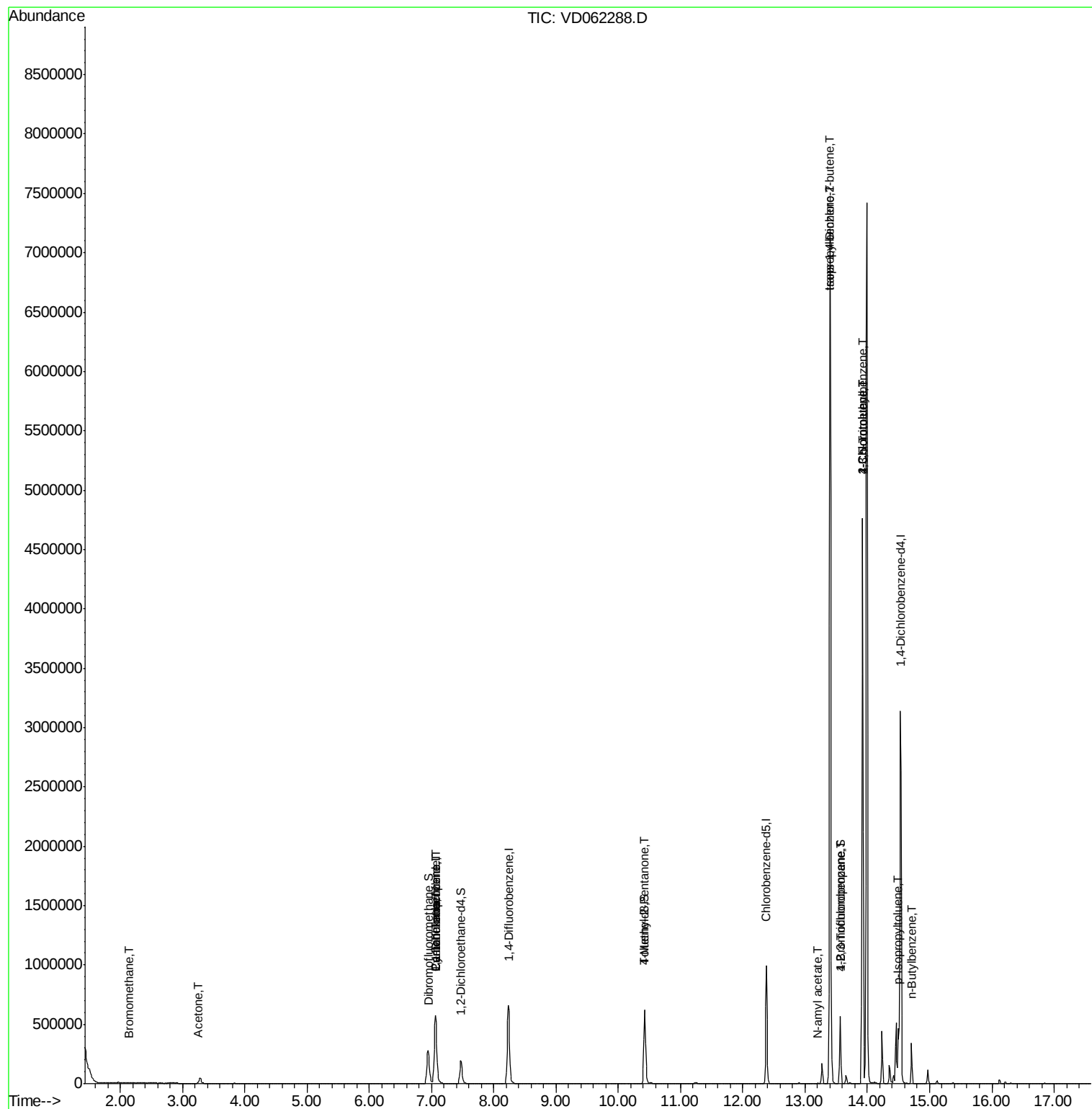
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	2972	3.542	ug/l #	12
16) Acetone	3.24	43	10620	10.337	ug/l #	74
31) Cyclohexane	7.05	56	11401	2.218	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	42774	7.410	ug/l #	43
38) Carbon Tetrachloride	7.06	117	57452	7.191	ug/l #	15
51) 4-Methyl-2-Pentanone	10.43	43	2953	1.323	ug/l #	1
73) Isopropylbenzene	13.40	105	278078	21.794	ug/l #	62
74) N-amyl acetate	13.20	43	4974	1.487	ug/l #	55
76) 1,2,3-Trichloropropane	13.56	75	78075	30.865	ug/l #	45
79) 2-Chlorotoluene	13.92	91	769869	88.319	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.92	105	65450	6.092	ug/l #	49
81) trans-1,4-Dichloro-2-buten	13.40	75	9074	12.707	ug/l #	1
82) 4-Chlorotoluene	13.92	91	769869	75.053	ug/l #	37
86) p-Isopropyltoluene	14.49	119	218460	18.467	ug/l	88
89) n-Butylbenzene	14.71	91	48899	4.605	ug/l #	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

Instrument :

MSVOA_D

ClientSampleId :

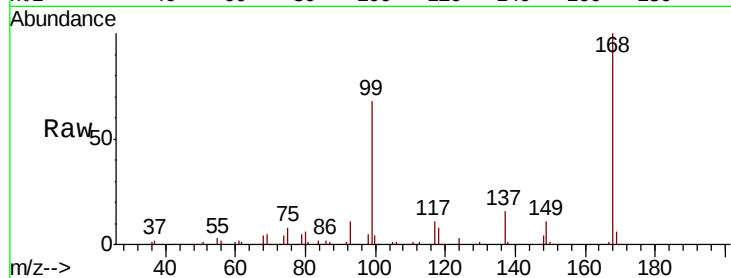
P021-SS001-0002-01MSD

Tot Ion:168 Resp: 527184

Ion Ratio Lower Upper

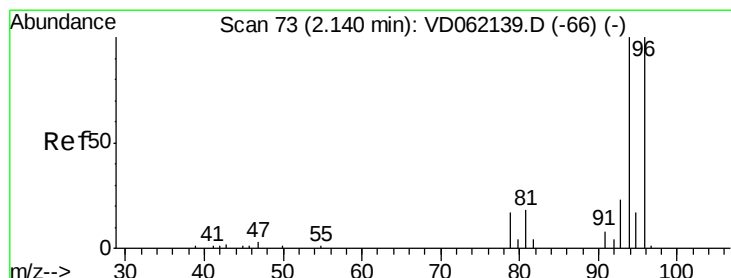
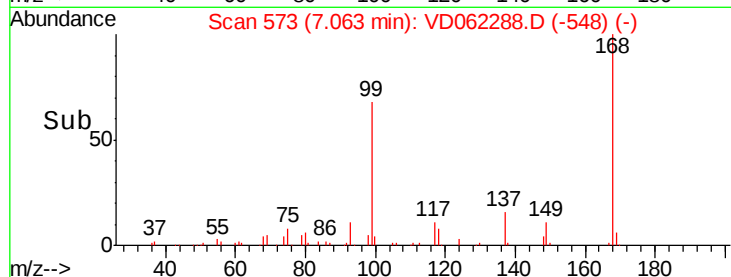
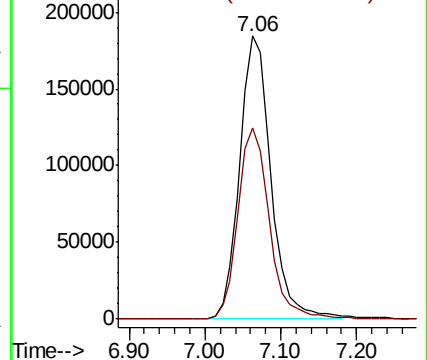
168 100

99 67.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 3.542 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

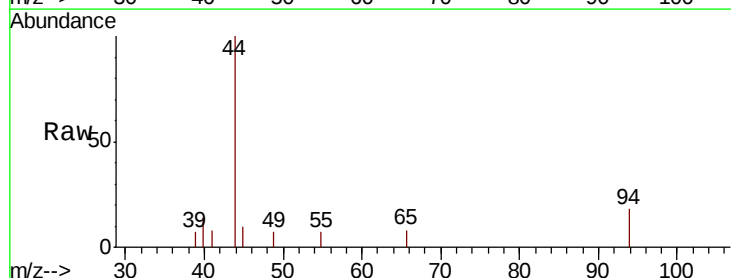
Tgt Ion: 94 Resp: 2972

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

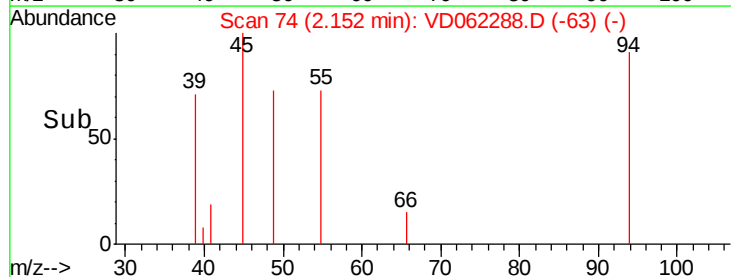
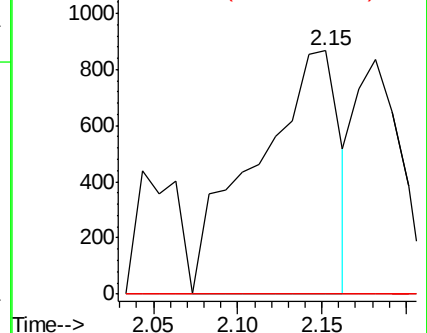
93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 10.337 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.05 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

Instrument :

MSVOA_D

ClientSampleId :

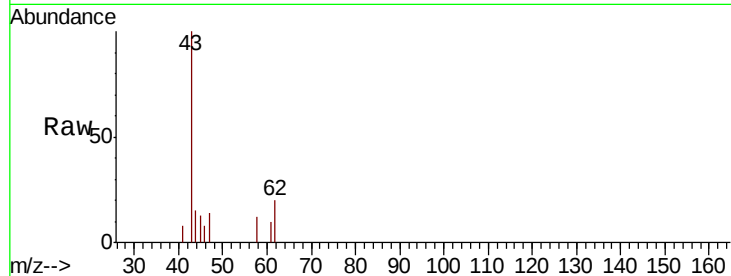
P021-SS001-0002-01MSD

Tot Ion: 43 Resp: 10620

Ion Ratio Lower Upper

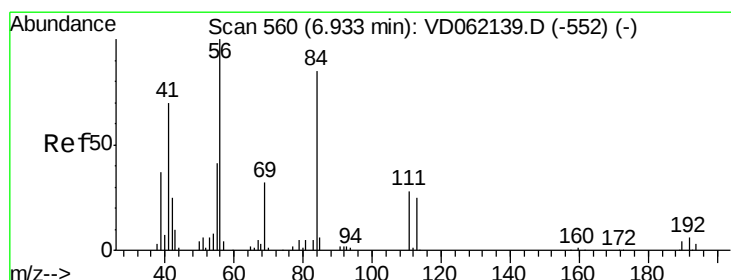
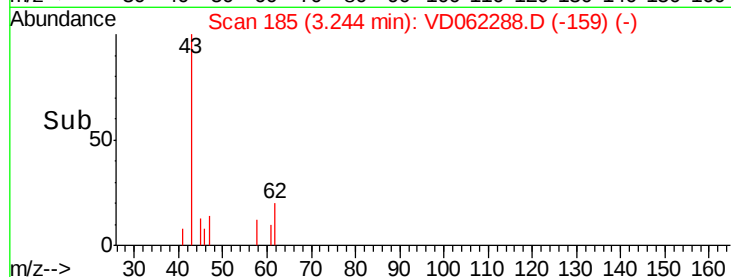
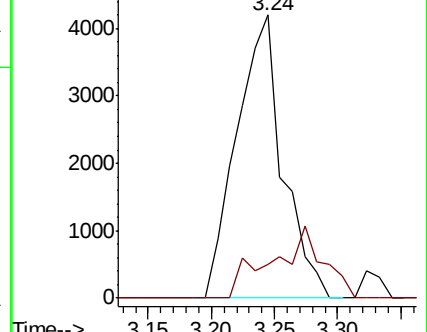
43 100

58 11.9 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#31

Cyclohexane

Concen: 2.218 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

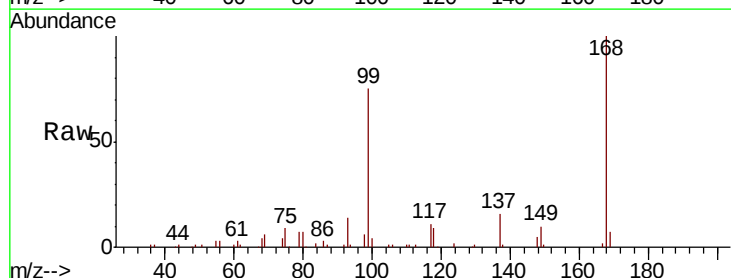
Tgt Ion: 56 Resp: 11401

Ion Ratio Lower Upper

56 100

69 237.6 25.8 38.6#

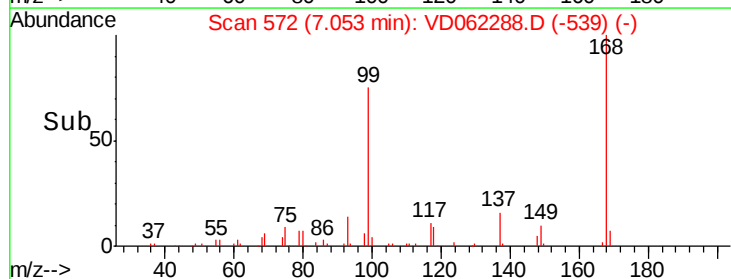
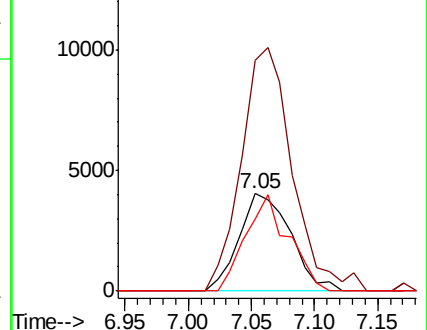
84 73.4 72.2 108.4

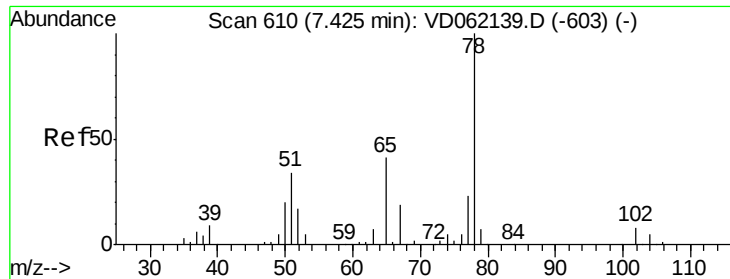


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

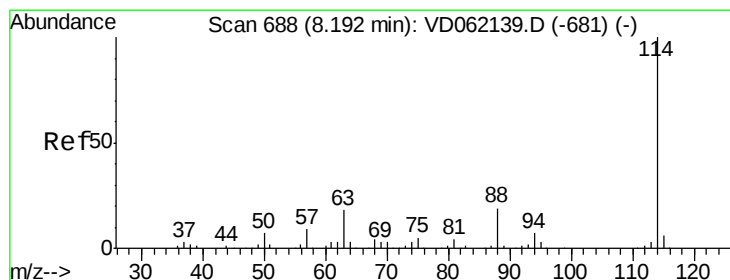
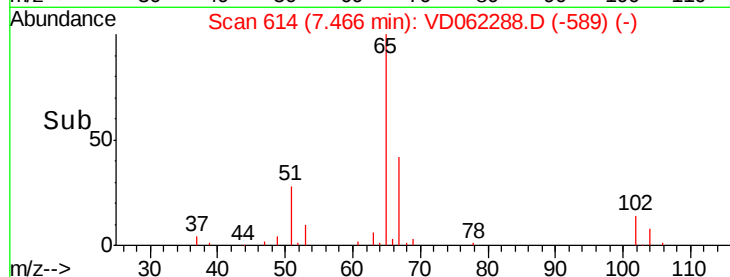
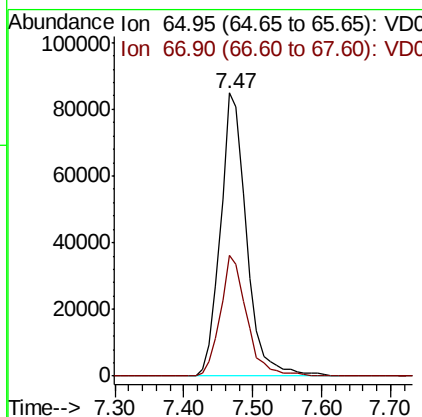
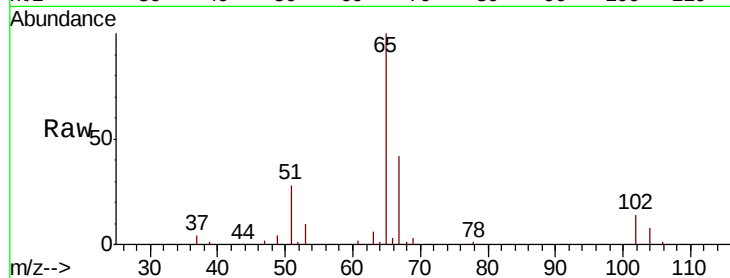




#33
 1,2-Dichloroethane-d4
 Concen: 45.409 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.04 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

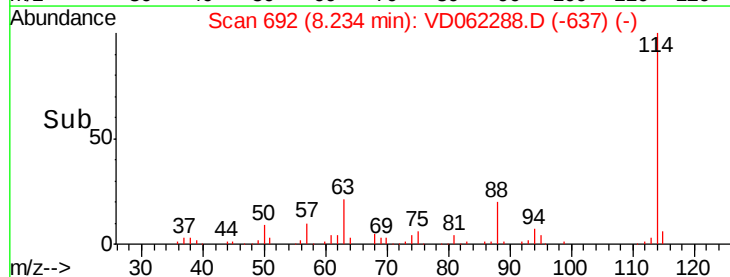
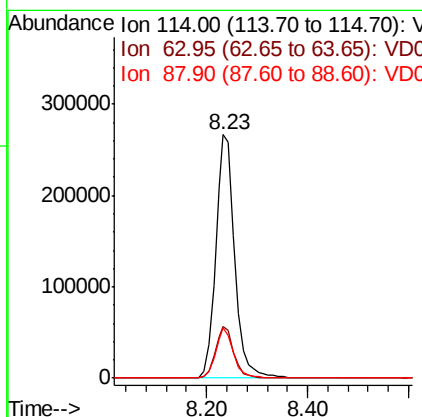
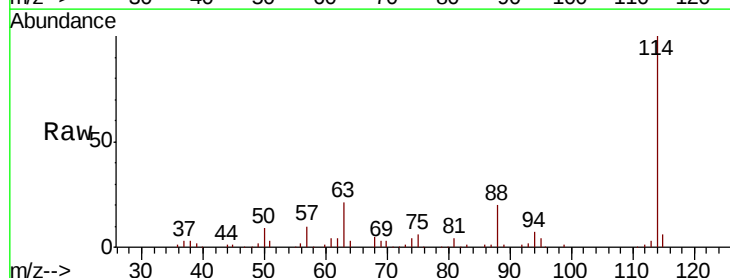
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion: 65 Resp: 222467
 Ion Ratio Lower Upper
 65 100
 67 42.5 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.04 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Tgt Ion: 114 Resp: 704072
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 32.4
 88 20.5 0.0 33.6





#35

Dibromofluoromethane

Concen: 42.892 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.05 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

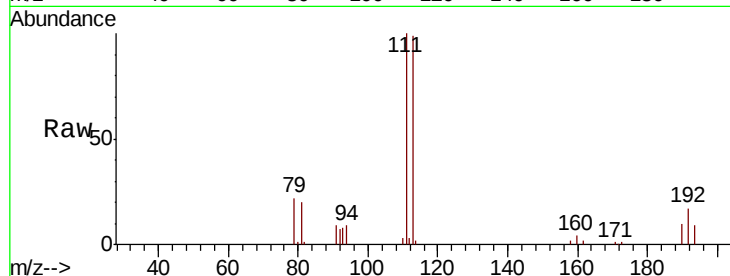
Tot Ion:113 Resp: 250563

Ion Ratio Lower Upper

113 100

111 100.9 78.5 117.7

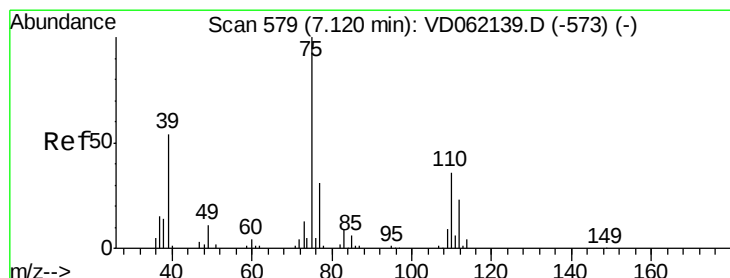
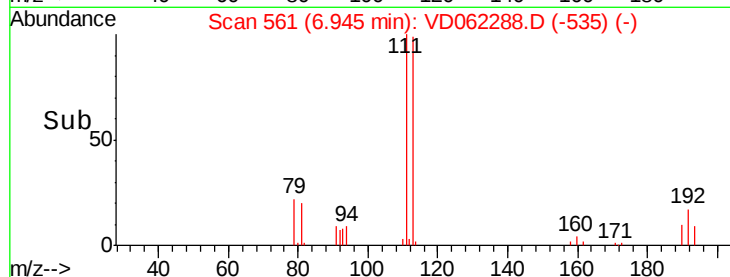
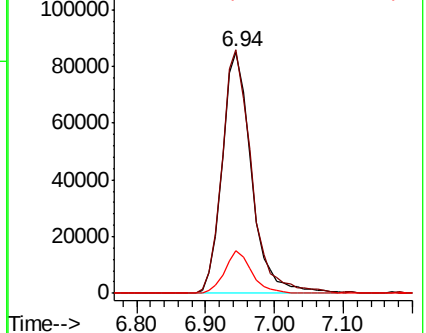
192 17.6 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 7.410 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.06 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

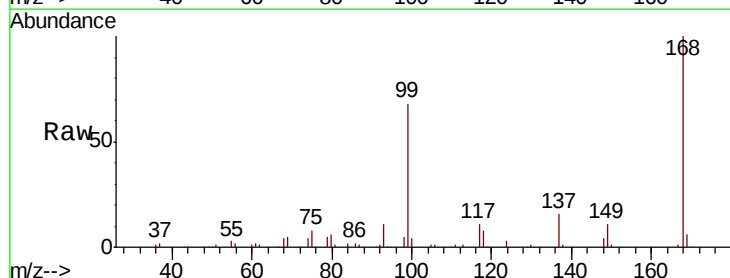
Tgt Ion: 75 Resp: 42774

Ion Ratio Lower Upper

75 100

110 4.4 19.1 57.1#

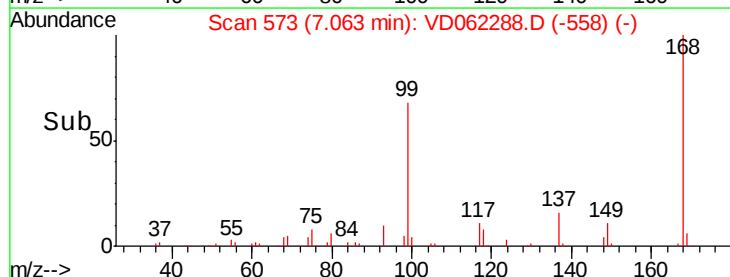
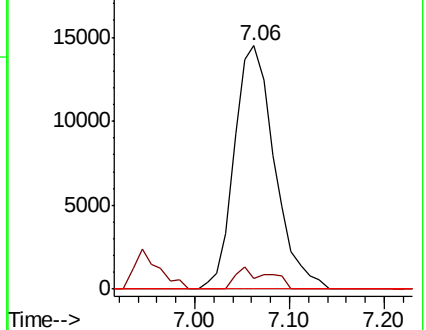
77 0.0 25.6 38.4#

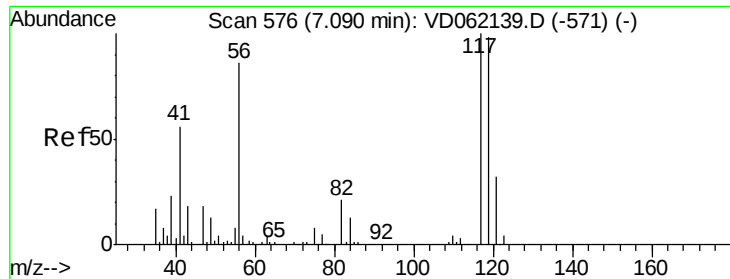


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

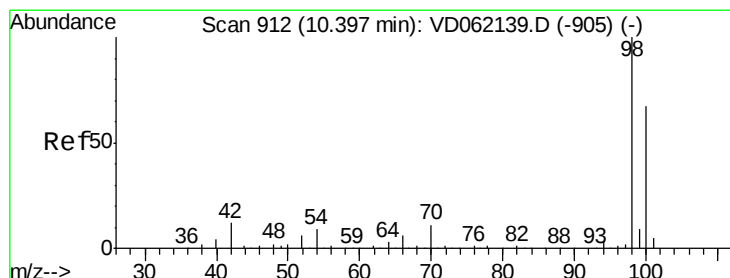
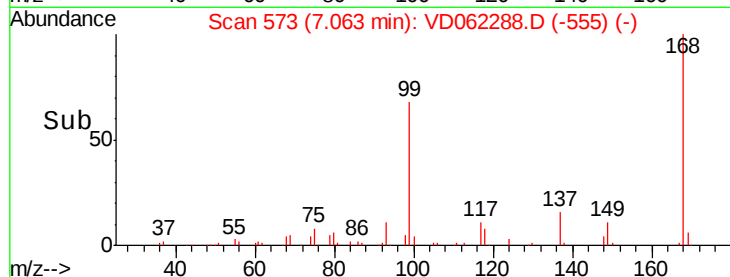
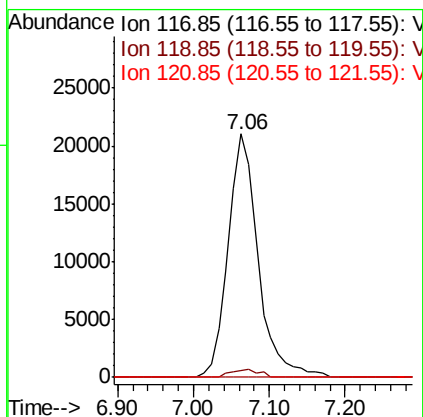
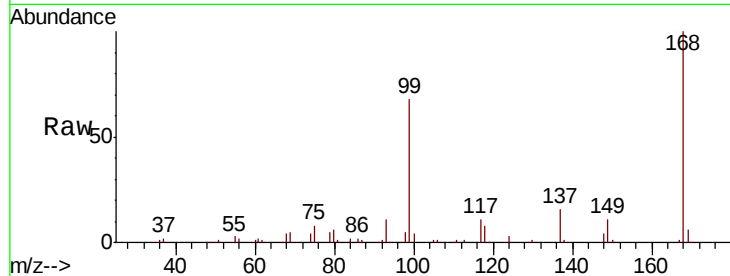




#38
Carbon Tetrachloride
Concen: 7.191 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.03 min
Lab File: VD062288.D
Acq: 13 May 2019 6:04

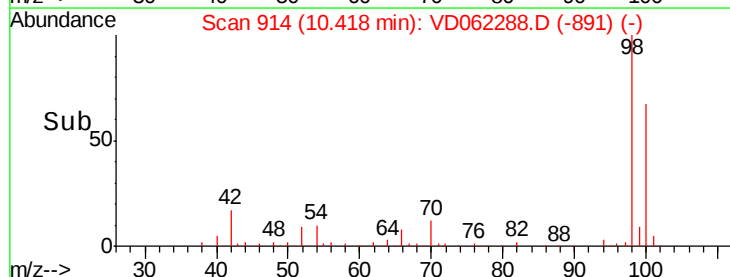
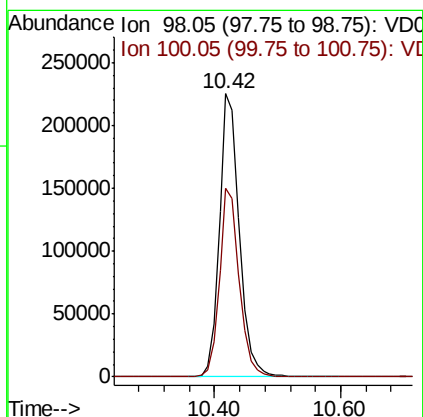
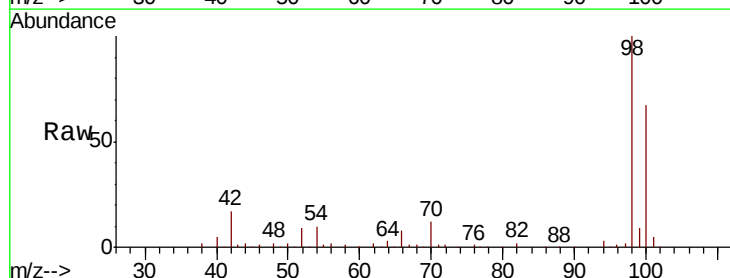
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

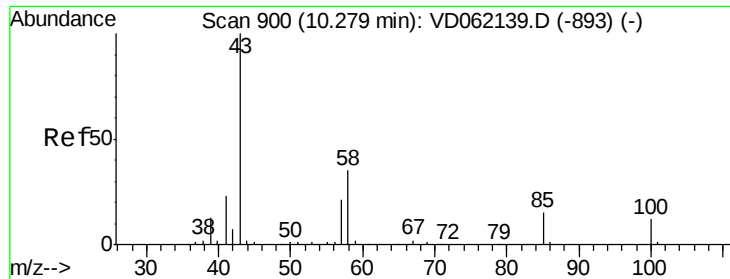
Tot Ion:117 Resp: 57452
Ion Ratio Lower Upper
117 100
119 2.9 75.8 113.8#
121 0.0 25.9 38.9#



#50
Toluene-d8
Concen: 35.423 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062288.D
Acq: 13 May 2019 6:04

Tgt Ion: 98 Resp: 498930
Ion Ratio Lower Upper
98 100
100 66.8 53.8 80.8

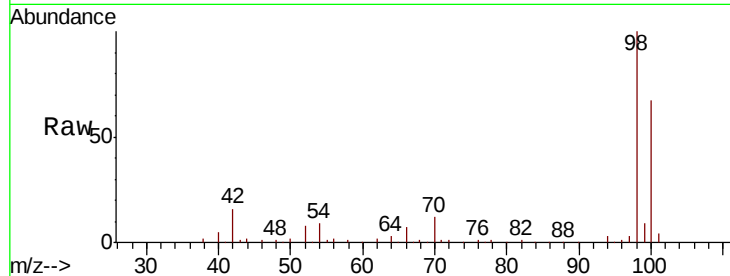




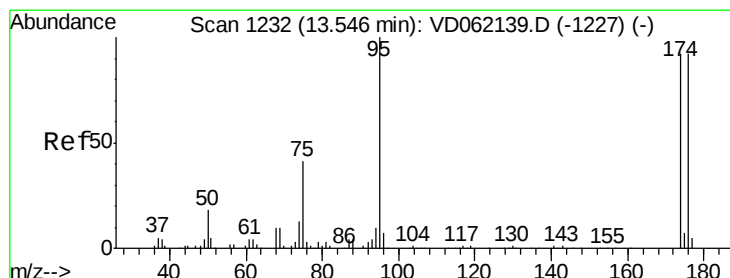
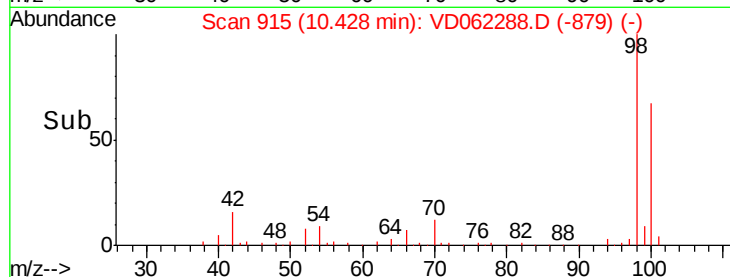
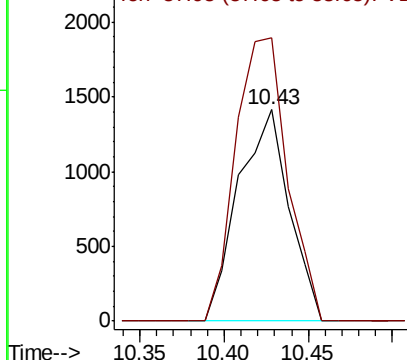
#51
 4-Methyl-2-Pentanone
 Concen: 1.323 ug/l
 RT: 10.43 min Scan# 915
 Delta R.T. 0.15 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion: 43 Resp: 2953
 Ion Ratio Lower Upper
 43 100
 58 134.1 30.4 45.6#

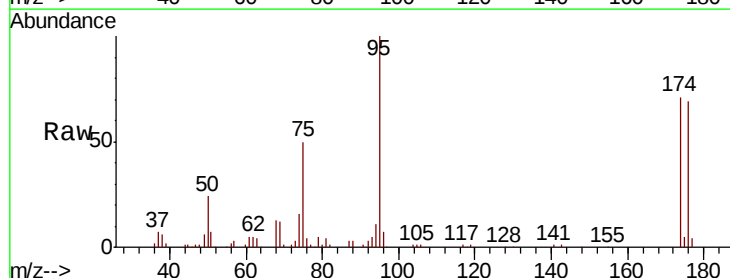


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC

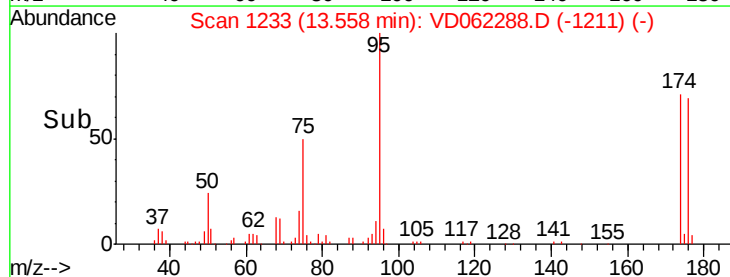
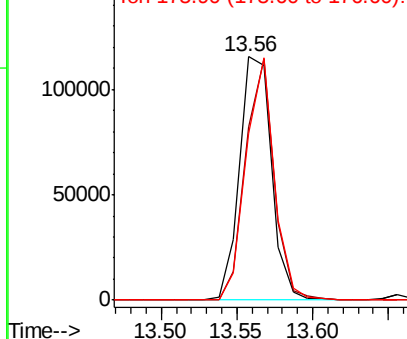


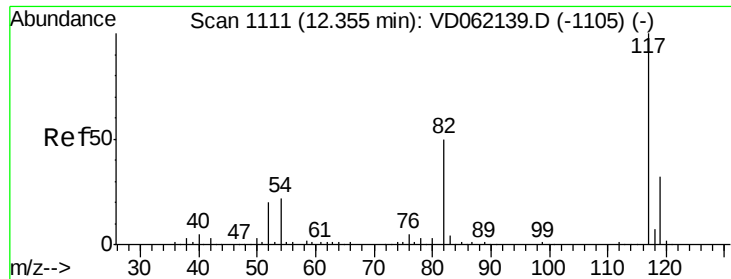
#62
 4-Bromofluorobenzene
 Concen: 30.069 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Tgt Ion: 95 Resp: 170072
 Ion Ratio Lower Upper
 95 100
 174 71.1 0.0 181.8
 176 68.7 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
 Ion 173.90 (173.60 to 174.60): V
 Ion 175.90 (175.60 to 176.60): V

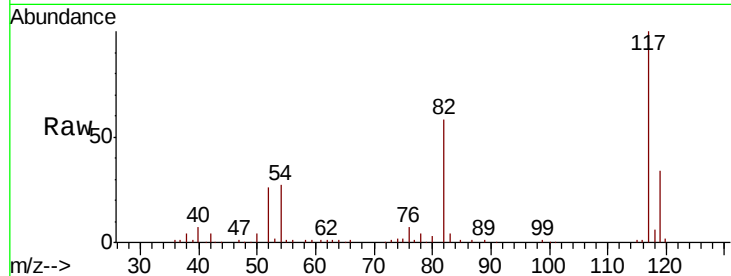




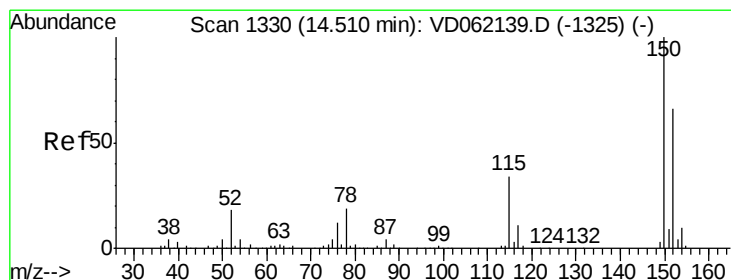
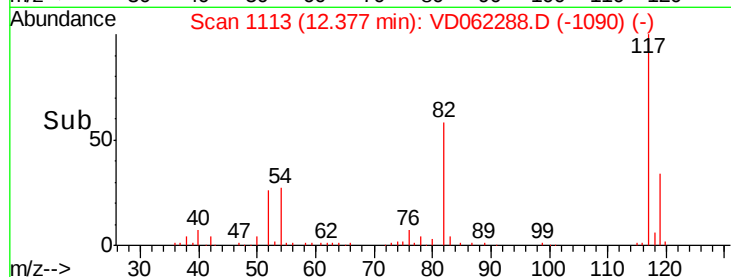
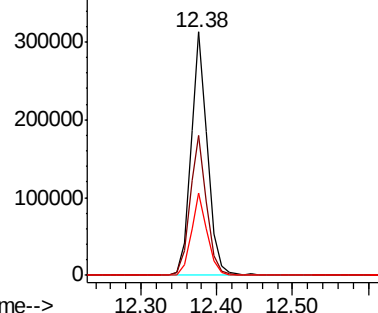
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.38 min Scan# 1113
 Delta R.T. 0.02 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion:117 Resp: 476158
 Ion Ratio Lower Upper
 117 100
 82 57.6 36.2 54.2#
 119 33.6 26.2 39.4

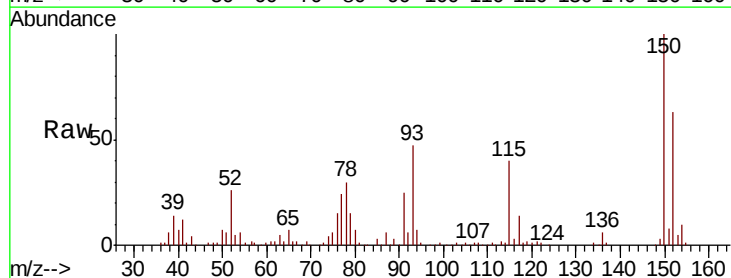


Abundance Ion 116.95 (116.65 to 117.65): V
 Ion 82.05 (81.75 to 82.75): V
 Ion 118.95 (118.65 to 119.65): V

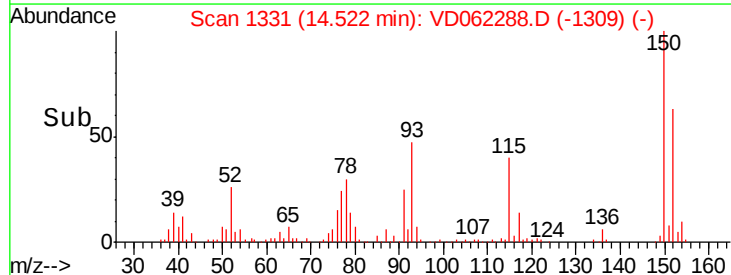
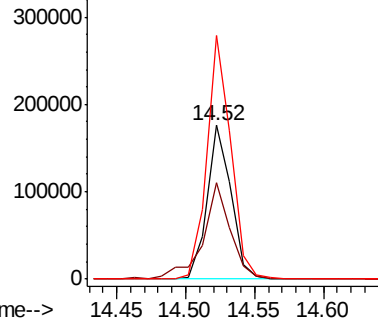


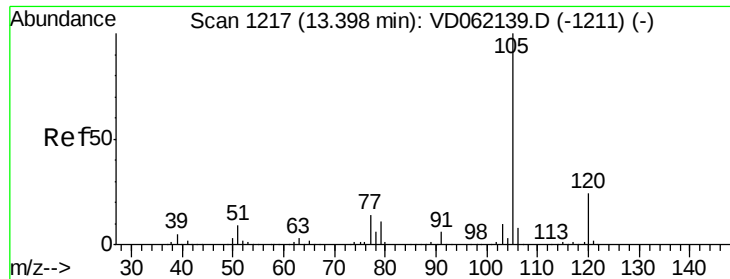
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Tgt Ion:152 Resp: 212854
 Ion Ratio Lower Upper
 152 100
 115 62.8 30.9 92.7
 150 158.3 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.794 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

Instrument :

MSVOA_D

ClientSampleId :

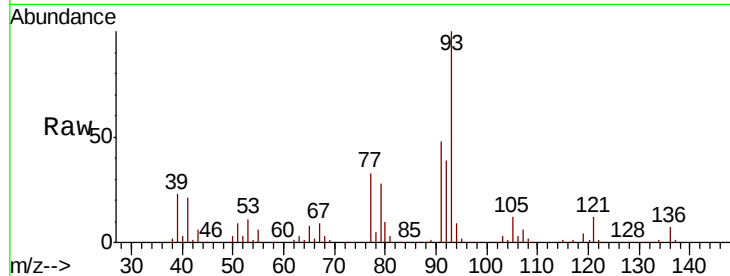
P021-SS001-0002-01MSD

Tot Ion: 105 Resp: 278078

Ion Ratio Lower Upper

105 100

120 5.5 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

200000

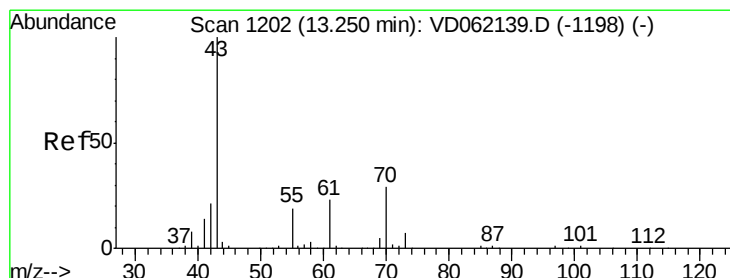
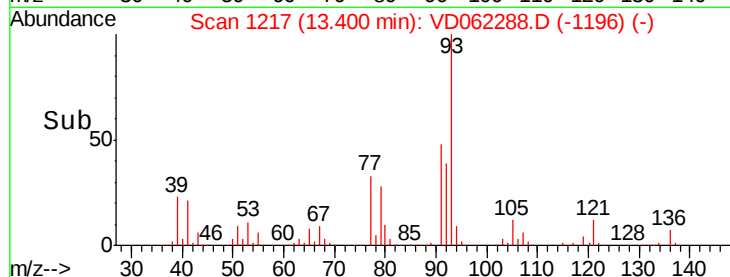
150000

100000

50000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 1.487 ug/l

RT: 13.20 min Scan# 1197

Delta R.T. -0.05 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

Tgt Ion: 43 Resp: 4974

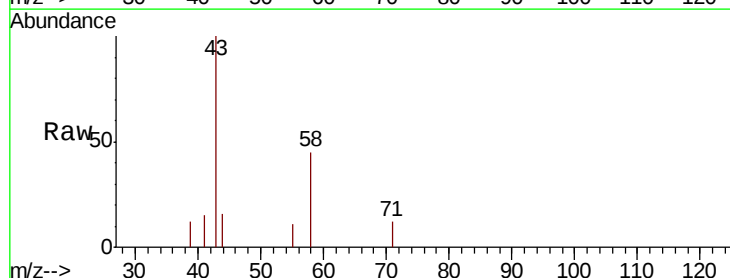
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 11.4 16.0 24.0#

61 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

13.20

6000

5000

4000

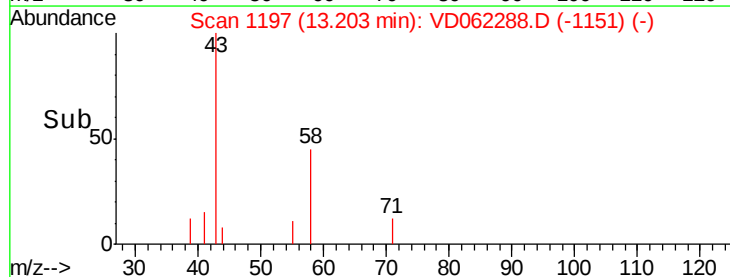
3000

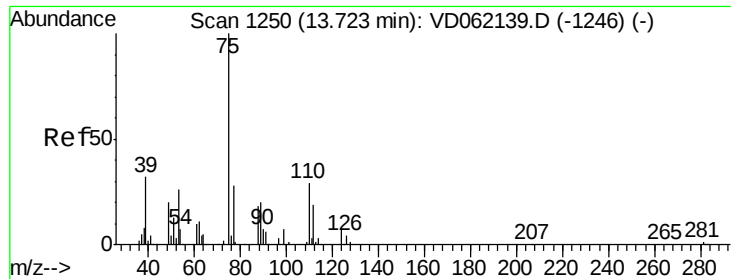
2000

1000

0

Time--> 13.15 13.20 13.25

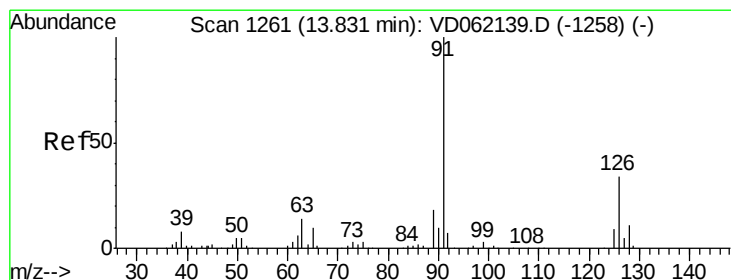
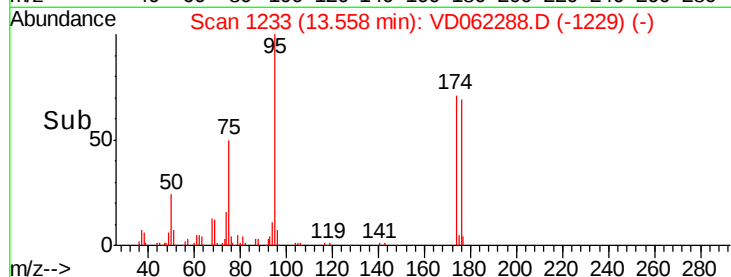
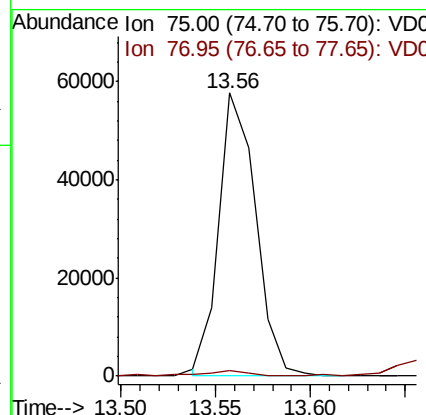
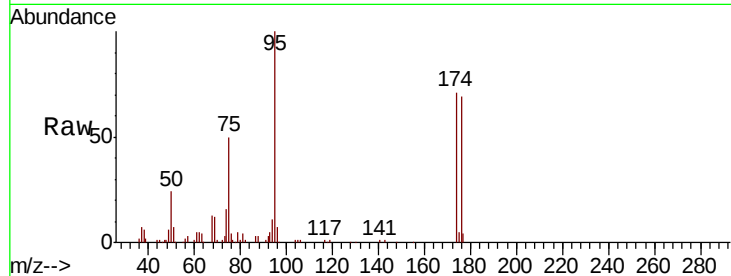




#76
 1,2,3-Trichloropropane
 Concen: 30.865 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.17 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

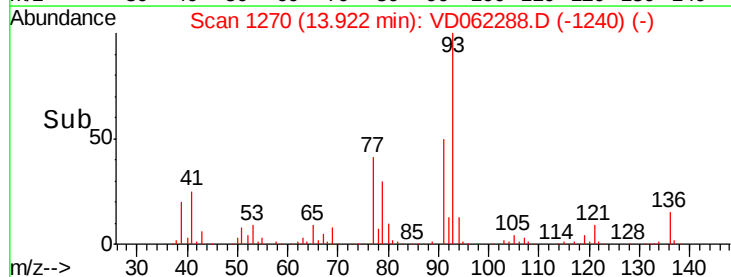
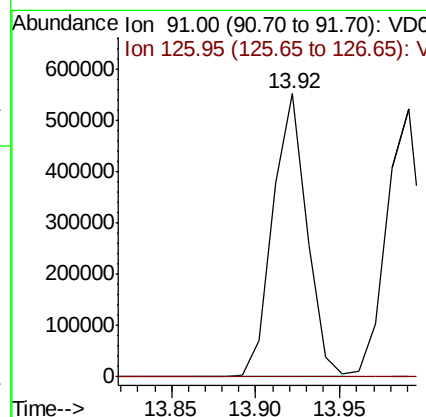
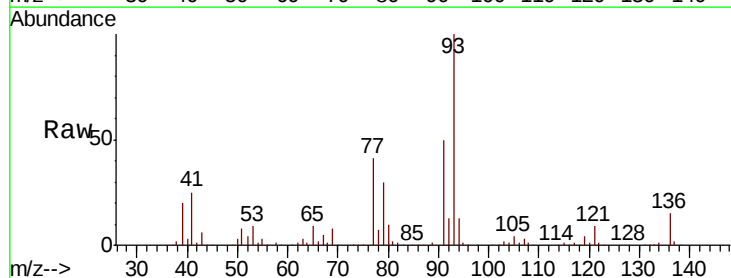
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

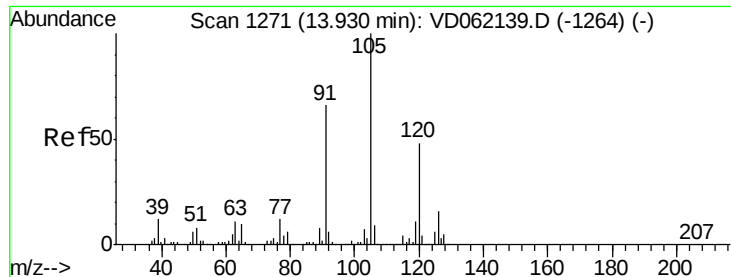
Tot Ion: 75 Resp: 78075
 Ion Ratio Lower Upper
 75 100
 77 1.9 16.4 49.4#



#79
 2-Chlorotoluene
 Concen: 88.319 ug/l
 RT: 13.92 min Scan# 1270
 Delta R.T. 0.09 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Tgt Ion: 91 Resp: 769869
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.6 55.8#





#80

1,3,5-Trimethylbenzene

Concen: 6.092 ug/l

RT: 13.92 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

Instrument :

MSVOA_D

ClientSampleId :

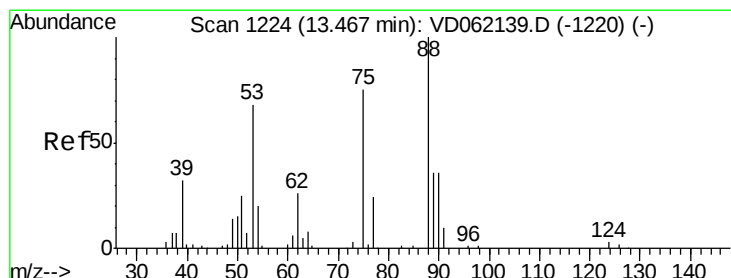
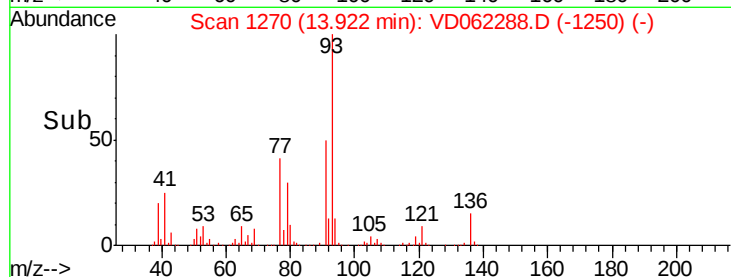
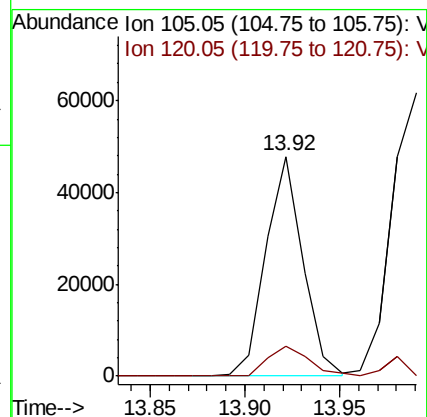
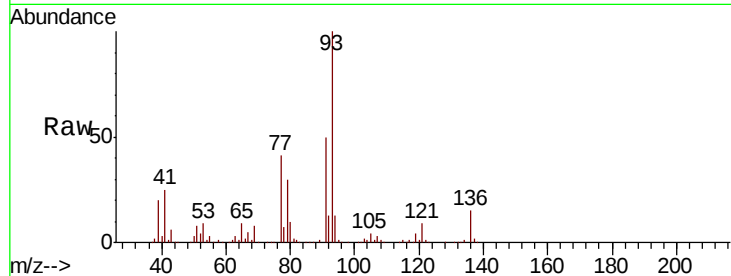
P021-SS001-0002-01MSD

Tot Ion:105 Resp: 65450

Ion Ratio Lower Upper

105 100

120 13.8 24.0 72.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 12.707 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.07 min

Lab File: VD062288.D

Acq: 13 May 2019 6:04

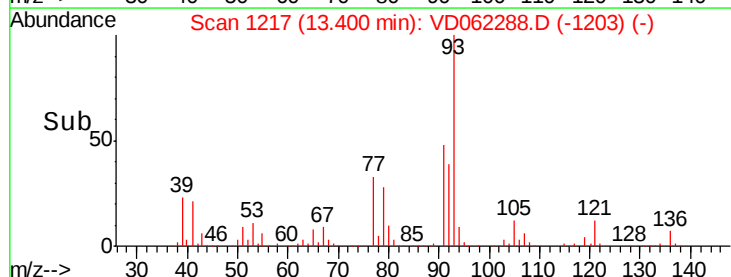
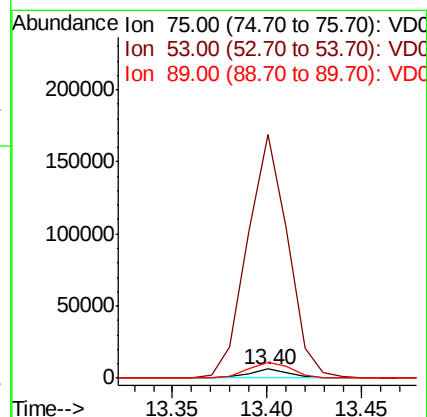
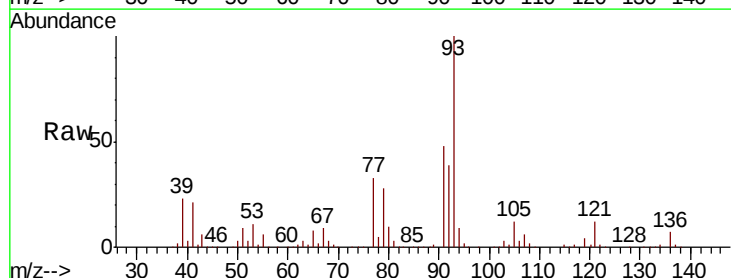
Tgt Ion: 75 Resp: 9074

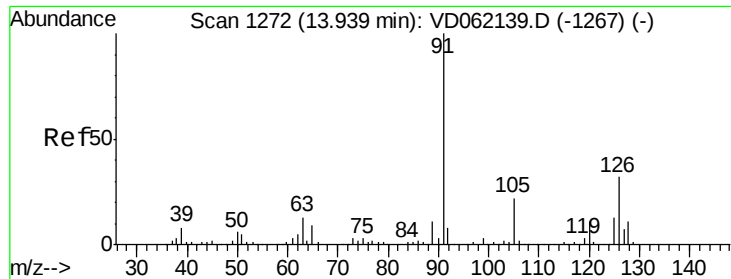
Ion Ratio Lower Upper

75 100

53 2689.6 65.8 98.8#

89 167.7 35.0 52.6#

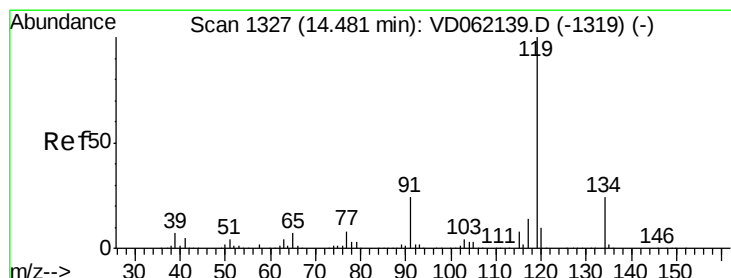
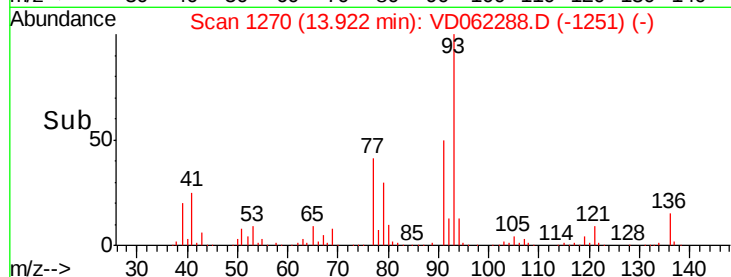
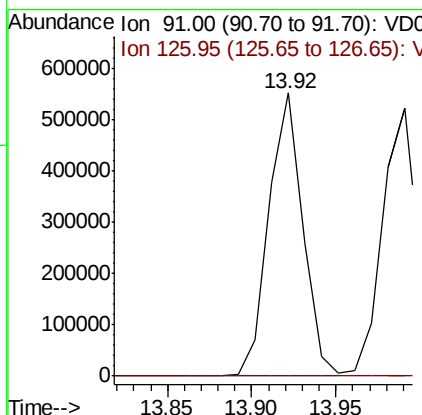
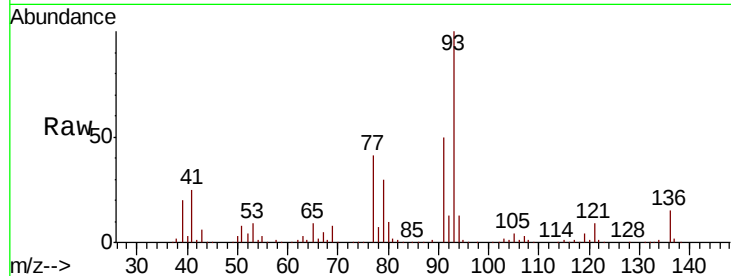




#82
4-Chlorotoluene
Concen: 75.053 ug/l
RT: 13.92 min Scan# 1270
Delta R.T. -0.02 min
Lab File: VD062288.D
Acq: 13 May 2019 6:04

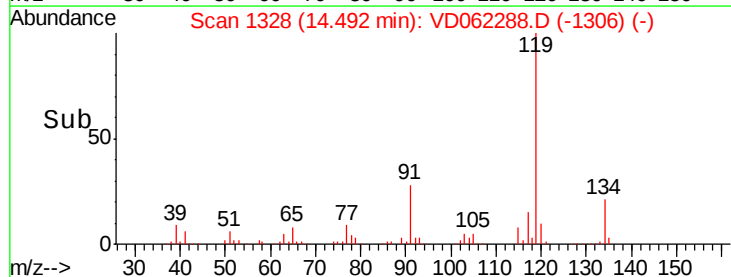
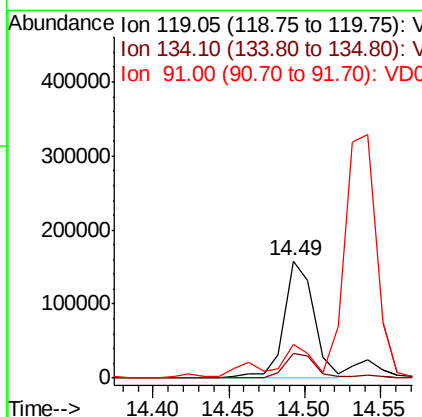
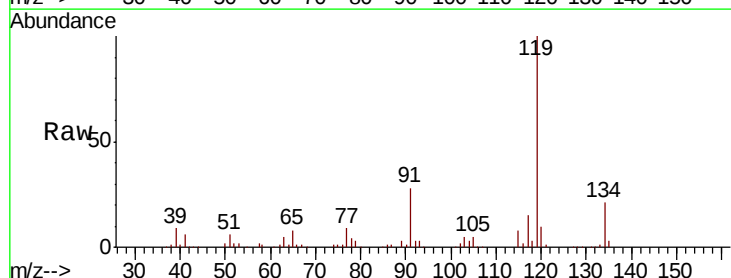
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

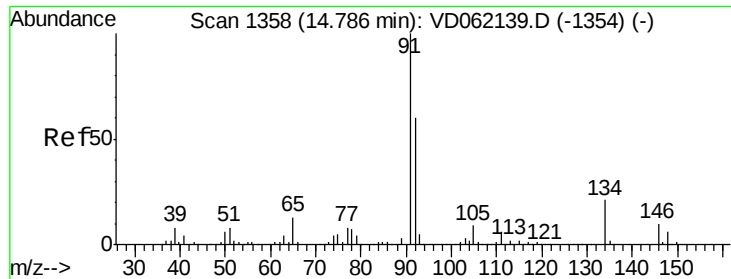
Tot Ion: 91 Resp: 769869
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#



#86
p-Isopropyltoluene
Concen: 18.467 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD062288.D
Acq: 13 May 2019 6:04

Tgt Ion: 119 Resp: 218460
Ion Ratio Lower Upper
119 100
134 20.5 12.8 38.3
91 28.3 10.7 32.1





#89
 n-Butylbenzene
 Concen: 4.605 ug/l
 RT: 14.71 min Scan# 1350
 Delta R.T. -0.08 min
 Lab File: VD062288.D
 Acq: 13 May 2019 6:04

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion	Ratio	Lower	Upper
91	100		
92	42.4	30.3	91.0
134	3.4	14.5	43.6#

